

## PATENT CLAIMS

1. Use of testosterone esters with 1 to 20 carbon atoms in the carboxylic acid radical or of mixtures of two or more testosterone esters with different carboxylic acid radicals and/or of testosterone for preparing buccally administered bioadhesive systems with time-controlled active ingredient release, for treating diseases associated with a modified testosterone level.
2. Use according to Claim 1, characterized in that the carbon structures of the carboxylic acid radicals are linear, branched, alicyclic, saturated and/or unsaturated and have up to five double and/or triple bonds.
3. Use according to Claim 1 or 2, characterized in that the ratio of testosterone to testosterone ester is from 1 : 100 to 1 : 1 and preferably from 1 : 10 to 1 : 1.5.
4. Use according to one of Claims 1 to 3, characterized in that the buccally administered bioadhesive systems are obtained by first embedding the amorphous active ingredients as obtained by a spray-drying process, separately or conjointly, into an organic polymer.
5. Use according to Claim (4,) characterized in that the amorphous spray-dried testosterone products are mixed with other auxiliary agents, binders, fillers, lubricants, bioadhesive polymers, surfactants or disintegration accelerators, and the mixture is then compressed to form single-layer or multilayer tablets.
6. Use according to one of the preceding claims for the purpose of attaining in a tailored manner a therapeutic and/or circadian rhythm of the testosterone level.

add  
A4